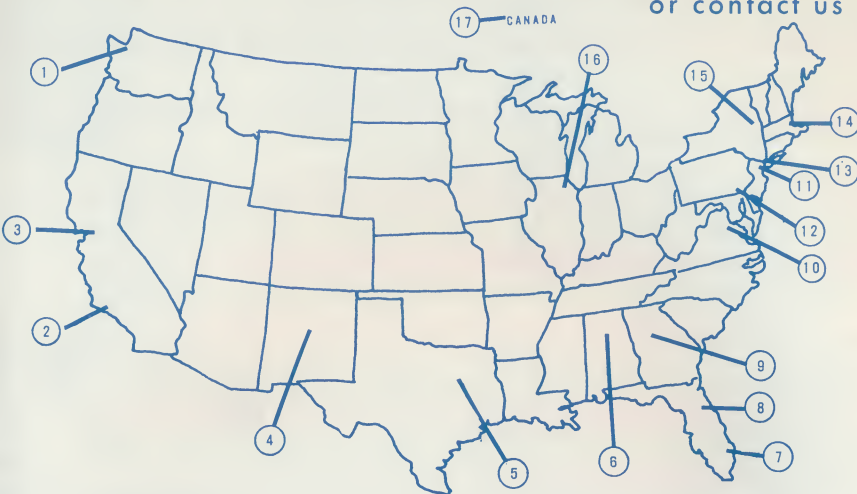




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- RA & RB SERIES, 0.05% & 0.5% REG.,
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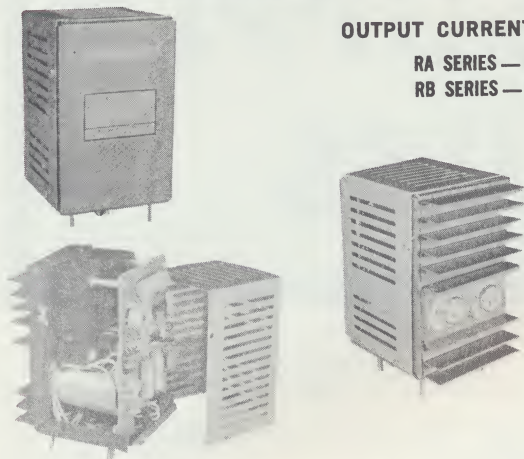
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REGULATED POWER MODULES, 0 TO 400 VOLTS

OUTPUT CURRENTS TO 25 AMPERES

RA SERIES—0.05% Regulation

RB SERIES—0.5% Regulation



FEATURES

- All Silicon Semiconductors throughout
- All components rated for continuous duty at -20 to $+71^{\circ}\text{C}$
- Short Circuit Proof—may be shorted indefinitely without damage
- Automatic overload & short circuit recovery
- No external heat sink or cooling required up to $+71^{\circ}\text{C}$
- All components accessible and replaceable for maintenance
- Top quality components and construction
- Competitively priced
- Compact mechanical package
- All power supplies subjected to rigorous QC inspections during manufacture and testing

GENERAL DESCRIPTION

The RA and RB Series of modular power supplies provide regulated voltage outputs between 0 and 400 volts at output currents up to 25 amperes, at regulations of 0.05 or 0.5%, according to the model selected.

Silicon semiconductors are used exclusively in the power supply circuitry. This together with the internal heat sinking provided in the supply, enables full load operation of the unit at ambient temperatures of 71°C without any additional cooling, heat sinking, and without derating.

The RA and RB Series power supplies are completely short circuit proof. The output may be short circuited indefinitely without damage. A unique circuit reduces the output current and voltage if the full load rating of the supply is exceeded. This not only protects the power supply, but serves to protect the load against further damage due to excessive current flow. The power supply automatically restores itself to normal operation after the short or overload is removed.

All components are accessible and replaceable in the field if required. All components are conservatively rated and are of the highest quality. For example, the electrolytic capacitors are 85°C types and the transformers are MIL-T-27 quality.

Connections at the connector permit either internal or remote adjustment of the output voltage. External connections also permit the remote sensing of the voltage directly at the load for improved overall load regulation on the RA Series.

SPECIFICATIONS

Input—105-125V AC, 47-420 CPS

Output—See Specific Model Listed

Regulation— $\pm 0.05\%$ or 2mv (whichever is greater) vs line & load for

RA Series; $\pm 0.5\%$ vs line & load for RB Series

Ripple—Less than 0.002%, or 1 mv RMS (whichever is greater) for

RA Series; 0.01% or 5 mv RMS for RB Series

Internal Impedance—Less than 0.1 ohms at DC, 0.4 ohms at 1kc & 0.16 ohms at 10kc

Operating Ambient Temperature— 20 to $+71^{\circ}\text{C}$

Output Adjustment—Either internal or external as desired

Cooling—None required at specified ambients

Polarity—May be either positive, negative, or floating (up to 300 volts)

Overload Protection—Solid state short circuit and overload protected, instantaneous recovery and automatic reset

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
0-3	0.375	R	\$ 94		\$ 90		5-7	0.200	R	\$ 60		\$ 50	
	0.750	R	97	RA2-XXX	92	RB2-XXX		0.375	R	65		60	
	1.5	R	120	substitute	110	substitute		0.750	R	75		65	
	3.0	RH	170	current	160	current		1.5	R	85	RA6-XXX	75	RB6-XXX
	6.0	TH	217	rating	207	rating		3.0	RH	137	substitute	127	substitute
	12.0	2TH	270	for XXX	256	for XXX		6.0	TH	181	current	166	current
	25.0	4TH	360		340			12.0	2TH	248	rating	233	rating
								25.0	4TH	326	for XXX	316	for XXX
3-5	0.375	R	60		50		7-9	0.200	R	60		50	
	0.750	R	70		60			0.375	R	75		65	
	1.5	R	81		71			0.750	R	90		80	
	3.0	RH	117	RA4-XXX	107	RB4-XXX		1.5	R	105	RA8-XXX	89	RB8-XXX
	6.0	TH	162		147			3.0	RH	149		139	
	12.0	2TH	221		206			6.0	TH	205		195	
	25.0	4TH	300		280			12.0	2TH	287		272	
								25.0	4TH	397		377	

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OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
9-11	0.200	R	\$ 60	RA10-XXX substitute current rating for XXX	\$ 50	RB10-XXX substitute current rating for XXX	25-28	0.100	N	\$ 60	RA26-XXX substitute current rating for XXX	\$ 55	RB26-XXX substitute current rating for XXX
	0.375	R	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	78		68	
	1.5	R	105		89			0.750	R	102		92	
	3.0	RH	149		139			1.5	T	127		117	
	6.0	TH	205		195			3.0	TH	192		177	
	12.0	2TH	287		272			6.0	2TH	255		240	
	25.0	4TH	397		377			12.0	4TH	330		315	
11-13	0.100	N	55	RA12-XXX	50	RB12-XXX	28-32	0.050	N	55	RA30-XXX	50	RB30-XXX
	0.200	N	60		55			0.100	N	60		55	
	0.375	N	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	81		71	
	1.5	R	105		89			0.750	R	107		97	
	3.0	RH	149		139			1.5	T	137		127	
	6.0	TH	205		195			3.0	TH	195		180	
	12.0	2TH	293		278			6.0	2TH	260		255	
13-15	0.100	N	55	RA14-XXX	50	RB14-XXX	32-36	12.0	4TH	340		325	
	0.200	N	65		55			0.050	N	55	RA34-XXX	50	RB34-XXX
	0.375	N	78		55			0.100	N	65		55	
	0.750	R	98		68			0.200	R	70		60	
	1.5	R	109		88			0.375	R	85		75	
	3.0	TH	159		91			0.750	R	107		97	
	6.0	2TH	215		141			1.5	T	146		136	
	12.0	3TH	293		200			3.0	TH	200		185	
	25.0	4TH	425		278			6.0	2TH	260		250	
15-17	0.100	N	55	RA16-XXX substitute current rating for XXX	50	RB16-XXX substitute current rating for XXX	36-40	12.0	4TH	365		345	
	0.200	N	65		55			0.050	N	55	RA38-XXX substitute current rating for XXX	50	RB38-XXX substitute current rating for XXX
	0.375	N	78		55			0.100	N	65		55	
	0.750	R	98		68			0.200	R	70		60	
	1.5	R	109		88			0.375	R	85		75	
	3.0	TH	159		91			0.750	R	107		97	
	6.0	2TH	215		141			1.5	T	150		140	
	12.0	3TH	303		200			3.0	TH	200		185	
	25.0	5TH	425		288			6.0	2TH	260		250	
17-19	0.100	N	55	RA18-XXX	50	RB18-XXX	40-45	12.0	4TH	365		345	
	0.200	N	65		55			0.050	N	60	RA42-XXX	55	RB42-XXX
	0.375	N	78		55			0.100	N	70		60	
	0.750	R	98		68			0.200	R	78		68	
	1.5	R	109		88			0.375	R	91		81	
	3.0	TH	159		99			0.750	T	115		100	
	6.0	2TH	215		141			1.5	T	162		152	
	12.0	3TH	308		200			3.0	TH	210		195	
	25.0	5TH	430		293			6.0	2TH	270		250	
19-22	0.100	N	55	RA20-XXX	50	RB20-XXX	45-50	12.0	4TH	375		355	
	0.200	N	65		55			0.050	N	60	RA47-XXX	55	RB47-XXX
	0.375	N	78		55			0.100	N	70		60	
	0.750	R	98		68			0.200	R	78		68	
	1.5	R	114		88			0.375	R	91		81	
	3.0	TH	159		104			0.750	T	120		110	
	6.0	2TH	215		141			1.5	T	162		152	
	12.0	3TH	323		200			3.0	TH	210		195	
	25.0	5TH	430		303			6.0	3TH	270		250	
22-25	0.100	N	55	RA23-XXX substitute current rating for XXX	50	RB23-XXX substitute current rating for XXX	50-56	12.0	5TH	390		370	
	0.200	N	65		55			0.050	N	60	RA53-XXX substitute current rating for XXX	55	RB53-XXX substitute current rating for XXX
	0.375	R	78		55			0.100	N	70		60	
	0.750	R	98		68			0.200	R	80		70	
	1.5	RH	116		88			0.375	R	91		81	
	3.0	TH	160		106			0.750	RH	120		110	
	6.0	2TH	215		150			1.5	TH	162		152	
	12.0	3TH	328		205			3.0	TH	220		205	
	25.0	5TH	440		313			6.0	3TH	270		250	

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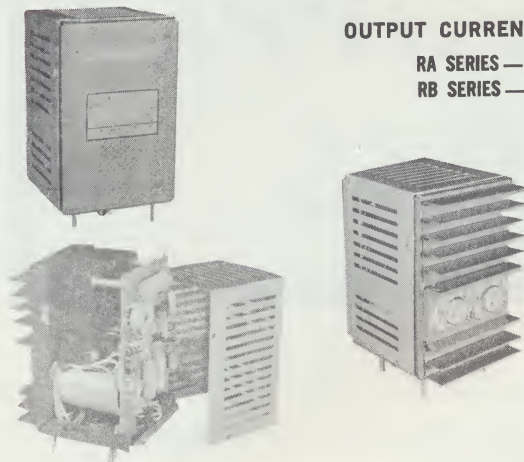
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REGULATED POWER MODULES, 0 TO 400 VOLTS

OUTPUT CURRENTS TO 25 AMPERES

RA SERIES — 0.05% Regulation

RB SERIES — 0.5% Regulation



FEATURES

- All Silicon Semiconductors throughout
- All components rated for continuous duty at -20 to $+71^{\circ}\text{C}$
- Short Circuit Proof — may be shorted indefinitely without damage
- Automatic overload & short circuit recovery
- No external heat sink or cooling required up to $+71^{\circ}\text{C}$
- All components accessible and replaceable for maintenance
- Top quality components and construction
- Competitively priced
- Compact mechanical package
- All power supplies subjected to rigorous QC inspections during manufacture and testing

GENERAL DESCRIPTION

The RA and RB Series of modular power supplies provide regulated voltage outputs between 0 and 400 volts at output currents up to 25 amperes, at regulations of 0.05 or 0.5%, according to the model selected.

Silicon semiconductors are used exclusively in the power supply circuitry. This together with the internal heat sinking provided in the supply, enables full load operation of the unit at ambient temperatures of 71°C without any additional cooling, heat sinking, and without derating.

The RA and RB Series power supplies are completely short circuit proof. The output may be short circuited indefinitely without damage. A unique circuit reduces the output current and voltage if the full load rating of the supply is exceeded. This not only protects the power supply, but serves to protect the load against further damage due to excessive current flow. The power supply automatically restores itself to normal operation after the short or overload is removed.

All components are accessible and replaceable in the field if required. All components are conservatively rated and are of the highest quality. For example, the electrolytic capacitors are 85°C types and the transformers are MIL-T-27 quality.

Connections at the connector permit either internal or remote adjustment of the output voltage. External connections also permit the remote sensing of the voltage directly at the load for improved overall load regulation on the RA Series.

SPECIFICATIONS

Input — 105-125V AC, 47-420 CPS

Output — See Specific Model Listed

Regulation — $\pm 0.05\%$ or 2mv (whichever is greater) vs line & load for RA Series; $\pm 0.5\%$ vs line & load for RB Series

Ripple — Less than 0.002%, or 1 mv RMS (which ever is greater) for RA Series; 0.01% or 5 mv RMS for RB Series

Internal Impedance — Less than 0.1 ohms at DC, 0.4 ohms at 1kc & 0.16 ohms at 10kc

Operating Ambient Temperature — 20 to $+71^{\circ}\text{C}$

Output Adjustment — Either internal or external as desired

Cooling — None required at specified ambients

Polarity — May be either positive, negative, or floating (up to 300 volts)

Overload Protection — Solid state short circuit and overload protected, instantaneous recovery and automatic reset

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
0-3	0.375	R	\$ 94		\$ 90		5-7	0.200	R	\$ 60		\$ 50	
	0.750	R	97	RA2-XXX	92	RB2-XXX		0.375	R	65		60	
	1.5	R	120	substitute	110	substitute		0.750	R	75		65	
	3.0	RH	170	current	160	current		1.5	R	85	RA6-XXX	75	RB6-XXX
	6.0	TH	217	rating	207	rating		3.0	RH	137	substitute	127	substitute
	12.0	2TH	270	for XXX	256	for XXX		6.0	TH	181	current	166	current
	25.0	4TH	360		340			12.0	2TH	248	rating	233	rating
3-5	0.375	R	60		50		7-9	0.200	R	60		50	
	0.750	R	70		60			0.375	R	75		65	
	1.5	R	81		71			0.750	R	90		80	
	3.0	RH	117	RA4-XXX	107	RB4-XXX		1.5	R	105	RA8-XXX	89	RB8-XXX
	6.0	TH	162		147			3.0	RH	149		139	
	12.0	2TH	221		206			6.0	TH	205		195	
	25.0	4TH	300		280			12.0	2TH	287		272	
								25.0	4TH	397		377	

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POWER MODULES

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
9-11	0.200	R	\$ 60		\$ 50		25-28	0.100	N	\$ 60		\$ 55	
	0.375	R	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	78		68	
	1.5	R	105		89			0.750	R	102		92	
	3.0	RH	149		139			1.5	T	127		117	
	6.0	TH	205		195			3.0	TH	192		177	
	12.0	2TH	287		272			6.0	2TH	255		240	
	25.0	4TH	397		377			12.0	4TH	330		315	
11-13	0.100	N	55		50		28-32	0.050	N	55		50	
	0.200	N	60		55			0.100	N	60		55	
	0.375	N	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	81		71	
	1.5	R	105		89			0.750	R	107		97	
	3.0	RH	149		139			1.5	T	137		127	
	6.0	TH	205		195			3.0	TH	195		180	
	12.0	2TH	293		278			6.0	2TH	260		255	
13-15	0.100	N	55		50		32-36	0.050	N	55		50	
	0.200	N	65		55			0.100	N	65		55	
	0.375	N	78		68			0.200	R	70		60	
	0.750	R	98		88			0.375	R	85		75	
	1.5	R	109		91			0.750	R	107		97	
	3.0	TH	159		141			1.5	T	146		136	
	6.0	2TH	215		200			3.0	TH	200		185	
	12.0	3TH	293		278			6.0	2TH	260		250	
15-17	0.100	N	55		50		36-40	0.050	N	55		50	
	0.200	N	65		55			0.100	N	65		55	
	0.375	N	78		68			0.200	R	70		60	
	0.750	R	98		88			0.375	R	85		75	
	1.5	R	109		91			0.750	R	107		97	
	3.0	TH	159		141			1.5	T	150		140	
	6.0	2TH	215		200			3.0	TH	200		185	
	12.0	3TH	303		288			6.0	2TH	260		250	
17-19	0.100	N	55		50		40-45	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	N	78		68			0.200	R	78		68	
	0.750	R	98		88			0.375	R	91		81	
	1.5	R	109		99			0.750	T	115		100	
	3.0	TH	159		141			1.5	T	162		152	
	6.0	2TH	215		200			3.0	TH	210		195	
	12.0	3TH	308		293			6.0	2TH	270		250	
19-22	0.100	N	55		50		45-50	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	N	78		68			0.200	R	78		68	
	0.750	R	98		88			0.375	R	91		81	
	1.5	R	114		104			0.750	T	120		110	
	3.0	TH	159		141			1.5	T	162		152	
	6.0	2TH	215		200			3.0	TH	210		195	
	12.0	3TH	323		303			6.0	3TH	270		250	
22-25	0.100	N	55		50		50-56	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	R	78		68			0.200	R	80		70	
	0.750	R	98		88			0.375	R	91		81	
	1.5	RH	116		106			0.750	RH	120		110	
	3.0	TH	160		150			1.5	TH	162		152	
	6.0	2TH	215		205			3.0	TH	220		205	
	12.0	3TH	328		313			6.0	3TH	270		250	
	0.100	N	55		50			0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	R	78		68			0.200	R	80		70	
	0.750	R	98		88			0.375	R	91		81	
	1.5	RH	116		106			0.750	RH	120		110	
	3.0	TH	160		150			1.5	TH	162		152	
	6.0	2TH	215		205			3.0	TH	220		205	
	12.0	3TH	328		313			6.0	3TH	270		250	

POWER/MATE CORP.

163 CLAY ST., HACKENSACK, N.J. 07601
201-343-6294



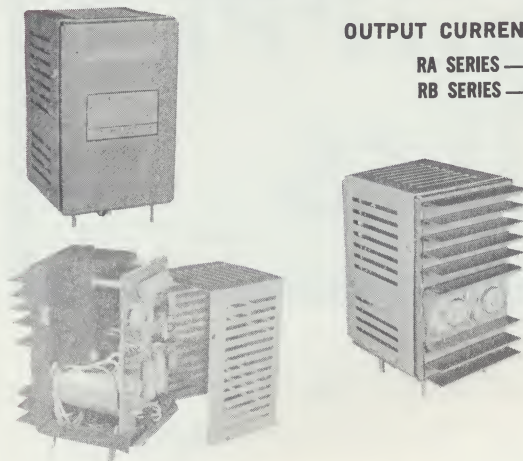
POWER/MATE
CORPORATION

0.05% & 0.5%
regulated
POWER MODULES

all silicon... **REGULATED POWER MODULES, 0 TO 400 VOLTS**

OUTPUT CURRENTS TO 25 AMPERES

RA SERIES — 0.05% Regulation
RB SERIES — 0.5% Regulation



FEATURES

- All Silicon Semiconductors throughout
- All components rated for continuous duty at -20 to $+71^{\circ}\text{C}$
- Short Circuit Proof — may be shorted indefinitely without damage
- Automatic overload & short circuit recovery
- No external heat sink or cooling required up to $+71^{\circ}\text{C}$
- All components accessible and replaceable for maintenance
- Top quality components and construction
- Competitively priced
- Compact mechanical package
- All power supplies subjected to rigorous QC inspections during manufacture and testing

GENERAL DESCRIPTION

The RA and RB Series of modular power supplies provide regulated voltage outputs between 0 and 400 volts at output currents up to 25 amperes, at regulations of 0.05 or 0.5%, according to the model selected.

Silicon semiconductors are used exclusively in the power supply circuitry. This together with the internal heat sinking provided in the supply, enables full load operation of the unit at ambient temperatures of 71°C without any additional cooling, heat sinking, and without derating.

The RA and RB Series power supplies are completely short circuit proof. The output may be short circuited indefinitely without damage. A unique circuit reduces the output current and voltage if the full load rating of the supply is exceeded. This not only protects the power supply, but serves to protect the load against further damage due to excessive current flow. The power supply automatically restores itself to normal operation after the short or overload is removed.

All components are accessible and replaceable in the field if required. All components are conservatively rated and are of the highest quality. For example, the electrolytic capacitors are 85°C types and the transformers are MIL-T-27 quality.

Connections at the connector permit either internal or remote adjustment of the output voltage. External connections also permit the remote sensing of the voltage directly at the load for improved overall load regulation on the RA Series.

SPECIFICATIONS

Input — 105-125V AC, 47-420 CPS

Output — See Specific Model Listed

Regulation — $\pm 0.05\%$ or 2mv (whichever is greater) vs line & load for RA Series; $\pm 0.5\%$ vs line & load for RB Series

Ripple — Less than 0.002%, or 1 mv RMS (which ever is greater) for RA Series; 0.01% or 5 mv RMS for RB Series

Internal Impedance — Less than 0.1 ohms at DC, 0.4 ohms at 1kc & 0.16 ohms at 10kc

Operating Ambient Temperature — 20 to $+71^{\circ}\text{C}$

Output Adjustment — Either internal or external as desired

Cooling — None required at specified ambients

Polarity — May be either positive, negative, or floating (up to 300 volts)

Overload Protection — Solid state short circuit and overload protected, instantaneous recovery and automatic reset

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
0-3	0.375	R	\$ 94		\$ 90		5-7	0.200	R	\$ 60		\$ 50	
	0.750	R	97	RA2-XXX	92	RB2-XXX		0.375	R	65		60	
	1.5	R	120	substitute	110	substitute		0.750	R	75		65	
	3.0	RH	170	current	160	current		1.5	R	85	RA6-XXX	75	RB6-XXX
	6.0	TH	217	rating	207	rating		3.0	RH	137	substitute	127	substitute
	12.0	2TH	270	for XXX	256	for XXX		6.0	TH	181	current	166	current
	25.0	4TH	360		340			12.0	2TH	248	rating	233	rating
3-5	0.375	R	60		50		7-9	0.200	R	60		50	
	0.750	R	70		60			0.375	R	75		65	
	1.5	R	81		71			0.750	R	90		80	
	3.0	RH	117	RA4-XXX	107	RB4-XXX		1.5	R	105	RA8-XXX	89	RB8-XXX
	6.0	TH	162		147			3.0	RH	149		139	
	12.0	2TH	221		206			6.0	TH	205		195	
	25.0	4TH	300		280			12.0	2TH	287		272	
								25.0	4TH	397		377	

POWER/MATE CORP.

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POWER/MATE CORPORATION

0.05% & 0.5%
regulated
POWER MODULES

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION		OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05% REGULATION		0.5% REGULATION	
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
9-11	0.200	R	\$ 60		\$ 50		25-28	0.100	N	\$ 60		\$ 55	
	0.375	R	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	78		68	
	1.5	R	105		89			0.750	R	102		92	
	3.0	RH	149		139			1.5	T	127		117	
	6.0	TH	205		195			3.0	TH	192		177	
	12.0	2TH	287		272			6.0	2TH	255		240	
	25.0	4TH	397		377			12.0	4TH	330		315	
11-13	0.100	N	55		50		28-32	0.050	N	55		50	
	0.200	N	60		55			0.100	N	60		55	
	0.375	N	75		65			0.200	R	70		60	
	0.750	R	90		80			0.375	R	81		71	
	1.5	R	105		89			0.750	R	107		97	
	3.0	RH	149		139			1.5	T	137		127	
	6.0	TH	205		195			3.0	TH	195		180	
	12.0	2TH	293		278			6.0	2TH	260		255	
	25.0	4TH	412		392			12.0	4TH	340		325	
13-15	0.100	N	55		50		32-36	0.050	N	55		50	
	0.200	N	65		55			0.100	N	65		55	
	0.375	N	78		68			0.200	R	70		60	
	0.750	R	98		88			0.375	R	85		75	
	1.5	R	109		91			0.750	R	107		97	
	3.0	TH	159		141			1.5	T	146		136	
	6.0	2TH	215		200			3.0	TH	200		185	
	12.0	3TH	293		278			6.0	2TH	260		250	
	25.0	4TH	425		405			12.0	4TH	365		345	
15-17	0.100	N	55		50		36-40	0.050	N	55		50	
	0.200	N	65		55			0.100	N	65		55	
	0.375	N	78		68			0.200	R	70		60	
	0.750	R	98		88			0.375	R	85		75	
	1.5	R	109		91			0.750	R	107		97	
	3.0	TH	159		141			1.5	T	150		140	
	6.0	2TH	215		200			3.0	TH	200		185	
	12.0	3TH	303		288			6.0	2TH	260		250	
	25.0	5TH	425		405			12.0	4TH	365		345	
17-19	0.100	N	55		50		40-45	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	N	78		68			0.200	R	78		68	
	0.750	R	98		88			0.375	R	91		81	
	1.5	R	109		99			0.750	T	115		100	
	3.0	TH	159		141			1.5	T	162		152	
	6.0	2TH	215		200			3.0	TH	210		195	
	12.0	3TH	308		293			6.0	2TH	270		250	
	25.0	5TH	430		410			12.0	4TH	375		355	
19-22	0.100	N	55		50		45-50	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	N	78		68			0.200	R	78		68	
	0.750	R	98		88			0.375	R	91		81	
	1.5	R	114		104			0.750	T	120		110	
	3.0	TH	159		141			1.5	T	162		152	
	6.0	2TH	215		200			3.0	TH	210		195	
	12.0	3TH	323		303			6.0	3TH	270		250	
	25.0	5TH	430		410			12.0	5TH	390		370	
22-25	0.100	N	55		50		50-56	0.050	N	60		55	
	0.200	N	65		55			0.100	N	70		60	
	0.375	R	78		68			0.200	R	80		70	
	0.750	R	98		88			0.375	R	91		81	
	1.5	RH	116		106			0.750	RH	120		110	
	3.0	TH	160		150			1.5	TH	162		152	
	6.0	2TH	215		205			3.0	TH	220		205	
	12.0	3TH	328		313			6.0	3TH	270		250	
	25.0	5TH	440		420								

POWER/MATE CORP.

163 CLAY ST., HACKENSACK, N.J. 07601
201-343-6294



POWER/MATE CORPORATION

0.05% & 0.5%
regulated
POWER MODULES

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05%	REGULATION	0.5%	REGULATION	OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE	0.05%	REGULATION	0.5%	REGULATION
			PRICE	MODEL NO.	PRICE	MODEL NO.				PRICE	MODEL NO.	PRICE	MODEL NO.
56-62	0.050	N	\$ 65		\$ 70		139-153	0.050	R	\$110		\$100	
	0.100	R	80		80			0.100	R	135	RA146-XXX	125	RB146-XXX
	0.200	R	90	RA59-XXX	90	RB59-XXX		0.200	R	190	substitute	180	substitute
	0.375	R	110	substitute	100	substitute		0.375	T	225	current	210	current
	0.750	T	130	current	120	current		0.750	TH	300	rating	280	rating
	1.5	TH	180	rating	170	rating		1.5	2TH	350	for XXX	330	for XXX
	3.0	2TH	260	for XXX	240	for XXX		3.0	3TH	400		375	
62-69	0.050	R	75		65		153-168	0.050	R	115		105	
	0.100	R	97		87			0.100	R	140		130	
	0.200	R	115	RA65-XXX	105	RB65-XXX		0.200	R	195	RA160-XXX	185	RB160-XXX
	0.375	R	140		130			0.375	T	255		240	
	0.750	T	160		150			0.750	TH	325		305	
	1.5	TH	200		185			1.5	2TH	375		355	
	3.0	2TH	295		275			3.0	4TH	430		405	
69-76	0.050	R	80		70		168-185	0.050	R	125		115	
	0.100	R	110		100			0.100	R	150		140	
	0.200	R	120		110			0.200	T	205	RA176-XXX	190	RB176-XXX
	0.375	T	145	RA72-XXX	135	RB72-XXX		0.375	T	270		255	
	0.750	T	175		165			0.750	TH	355		335	
	1.5	TH	230		215			1.5	2TH	405		385	
	3.0	2TH	300		280			3.0	4TH	450		425	
76-84	0.050	R	85		75		185-204	0.050	R	130		120	
	0.100	R	110		100			0.100	R	165		155	
	0.200	R	120	RA80-XXX	110	RB80-XXX		0.200	T	210	RA194-XXX	195	RB194-XXX
	0.375	T	155		145			0.375	T	290		275	
	0.750	T	195		185			0.750	TH	370		350	
	1.5	TH	255		240			1.5	2TH	415		395	
	3.0	2TH	315		295			3.0	4TH	490		465	
84-93	0.050	R	87		77		204-225	0.050	R	135		125	
	0.100	R	110		100			0.100	R	175		165	
	0.200	R	130	RA88-XXX	120	RB88-XXX		0.200	T	225	RA214-XXX	210	RB214-XXX
	0.375	T	165	substitute	155	substitute		0.375	T	300		285	
	0.750	T	215	current	200	current		0.750	TH	380		360	
	1.5	TH	275	rating	260	rating		1.5	2TH	435		415	
	3.0	2TH	335	for XXX	315	for XXX		3.0	4TH	510		485	
93-103	0.050	R	92		82		225-250	0.050	R	145		135	
	0.100	R	110		100			0.100	R	180	RA236-XXX	170	RB236-XXX
	0.200	R	140		130			0.200	T	240	substitute	225	substitute
	0.375	T	175	RA98-XXX	165	RB98-XXX		0.375	TH	315	current	295	current
	0.750	T	225		210			0.750	TH	390	rating	370	rating
	1.5	TH	275		265			1.5	2TH	455	for XXX	435	for XXX
	3.0	2TH	335		315			3.0	4TH	540		515	
103-114	0.050	R	95		85		250-275	0.050	R	155		145	
	0.100	R	115		105			0.100	T	200		185	
	0.200	R	145	RA108-XXX	135	RB108-XXX		0.200	T	270	RA262-XXX	255	RB262-XXX
	0.375	T	185		175			0.375	TH	350		330	
	0.750	T	235		220			0.750	2TH	410		390	
	1.5	TH	285		265			1.5	3TH	480		355	
	3.0	3TH	345		325			3.0	5TH	590		565	
114-126	0.050	R	97		87		275-315	0.050	T	160		150	
	0.100	R	120		110			0.100	T	210		195	
	0.200	R	150	RA120-XXX	140	RB120-XXX		0.200	T	295	RA295-XXX	280	RB295-XXX
	0.375	T	195		185			0.375	TH	365		345	
	0.750	T	245		230			0.750	2TH	435		410	
	1.5	TH	295		275			1.5	4TH	500		475	
	3.0	2TH	360		340		315-340	0.050	T	165		155	
126-139	0.050	R	110		100			0.100	T	220		205	
	0.100	R	135	RA132-XXX	125	RB132-XXX		0.200	T	300	RA327-XXX	285	RB327-XXX
	0.200	R	190	substitute	180	substitute		0.375	TH	380		360	
	0.375	T	225	current	210	current		0.750	2TH	450		425	
	0.750	TH	300	rating	280	rating		1.5	4TH	510		485	
	1.5	2TH	350	for XXX	330	for XXX	340-370	0.050	T	170		160	
	3.0	3TH	400		375			0.100	T	230		210	
139-153	0.050	R	110		100			0.200	T	310		290	
	0.100	R	135	RA146-XXX	125	RB146-XXX		0.375	TH	390	RA355-XXX	370	RB355-XXX
	0.200	R	190	substitute	180	substitute		0.750	2TH	470		445	
	0.375	T	225	current	210	current		1.5	4TH	530		505	
	0.750	TH	300	rating	280	rating	370-400	0.050	T	185		170	
	1.5	2TH	350	for XXX	330	for XXX		0.100	T	245	RA385-XXX	230	RB385-XXX
	3.0	3TH	400		375			0.200	T	325	substitute	305	substitute
	0.050	R	110		100			0.375	TH	410	current	385	current
	0.100	R	135	RA146-XXX	125	RB146-XXX		0.750	2TH	495	rating	470	rating
	0.200	R	190	substitute	180	substitute		1.5	4TH	550	for XXX	525	for XXX
	0.375	T	225	current	210	current							

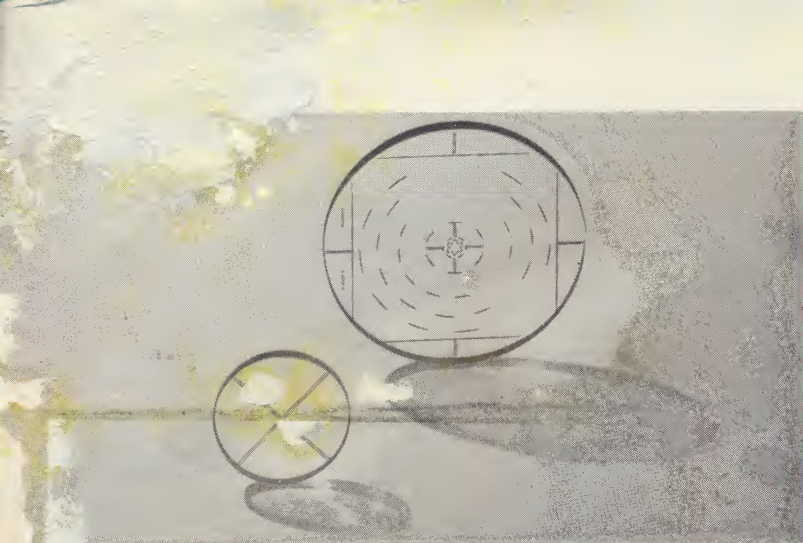
OVERALL CASE SIZES

N	R	RH	L	W	H	T	L	W	H	T	L	W	H
			3	x2 1/2	x4 1/4		4	x 5	x6 1/2		3TH	6 1/4	x10 1/2
			3 1/4	x3 3/4	x5	TH	5	x 5 1/4	x6 1/2	4TH	10	x10 1/2	x6 1/2
			3 1/4	x3 3/4	x5	2TH	5	x10 1/2	x6 1/2	5TH	10 1/2	x11 1/4	x6 1/2

Contact Factory or Representative for Catalog giving complete mechanical data.

POWER/MATE CORP.

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GLASS ETCHING

Buckbee Mears

By photomechanical techniques Buckbee Mears Company has developed glass etching to a new standard of quality. Calibrations, scales and configurations are etched to specified widths and depths to tolerances of .0001. Anything that can be drawn in line can be reproduced. Extreme accuracy results because pattern drawings are reduced photographically up to 1000 times. Because the master is made photomechanically, small runs are made at moderate cost. Because of micro accuracy, wide flexibility and moderate cost, BMC has become the largest producer of glass reticles in the world.

PROGRESS . . . the continuing effort of hand and mind



POWER/MATE
CORPORATION

0.75% & 1.5%
regulated
POWER MODULES

all silicon...

REGULATED POWER MODULES, 3 TO 50 VOLTS UP TO ONE AMPERE OUTPUT

RC SERIES— 0.75% REGULATION, \$59.95

RD SERIES— 1.5% REGULATION, \$49.95



SPECIFICATIONS

Input — 105-125V AC, 47-420 CPS

Output — See specific model listed

Regulation — $\pm 0.75\%$ vs line & load for RC Series
 $\pm 1.5\%$ vs line & load for RD Series

Ripple — Less than 4MV RMS for RC Series
Less than 8MV RMS for RD Series

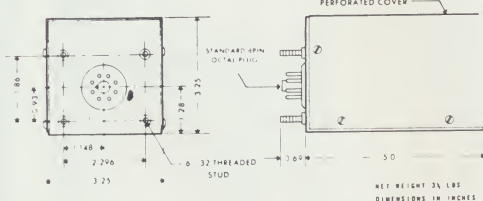
Operating Ambient Temperature — -20 to $+71^{\circ}\text{C}$

Output Adjustment — Adjusted by means of internal pot

Cooling—None required within specified ambients

Polarity — May be either positive, negative or floating up to 300 volts

Overload Protection — Short circuit protected, auto-reset



INPUT-OUTPUT CONNECTIONS

PIN NO	
1	AC INPUT
2	AC INPUT
3	POS DC OUTPUT
6	NEG DC OUTPUT

Features

All Silicon Semiconductors throughout

All components rated for continuous duty at -20 to $+71^{\circ}\text{C}$

Short Circuit Proof

Automatic overload & short circuit recovery

No external heat sink or cooling required up to $+71^{\circ}\text{C}$

All components accessible and replaceable for maintenance

Compact mechanical package

All power supplies subjected to rigorous QC inspections during manufacture and testing.

GENERAL DESCRIPTION

The RC and RD Series of module power supplies are low cost units that feature the same high quality construction and components used in our other series of power supply modules. The regulation and ripple listed in the specifications are adequate to permit their use in all but the more critical applications. The low cost of these modules is the direct result of the wide acceptance that these modules have found throughout the industry. All of the modules listed are available from stock.

Silicon semiconductors are used exclusively in the power supply circuitry. This together with the internal heat sinking provided in the supply, enables full load operation of the unit at ambient temperatures of 71°C without any additional cooling, heatsinking, and without derating.

All components in the supply are readily accessible by removing the cover, and are replaceable in the field should it ever be necessary. Components are conservatively rated. Electrolytic capacitors are 85 degree C types, and the transformer is MIL-T-27 quality.

The RC and RD Series modules are completely short-circuit proof. A solid-state current fold-back circuit makes the unit immune to overloads or short circuits. The unit automatically resets when the overload or short is removed.

All of the RC and RD Series modules are housed in a rugged $3\frac{1}{4} \times 3\frac{1}{4} \times 5$ inch unit with a standard octal plug for the input output connections.

STANDARD OFF-THE-SHELF MODELS, RC & RD SERIES

OUTPUT VOLTAGE RANGE	OUTPUT CURRENT AMPS	0.75% REGULATION		1.5% REGULATION	
		MODEL	PRICE	MODEL	PRICE
3-7	1.0	RC-5	\$59.95	RD-5	\$49.95
7-11	1.0	RC-9		RD-9	
11-13	0.5	RC-12		RD-12	
13-16	0.5	RC-15		RD-15	
16-21	0.5	RC-19	ALL MODELS	RD-19	ALL MODELS
21-26	0.5	RC-24		RD-24	
26-31	0.5	RC-28		RD-28	
31-37	0.5	RC-34		RD-34	
37-43	0.5	RC-40		RD-40	
43-50	0.5	RC-48		RD-48	

POWER/MATE CORP.

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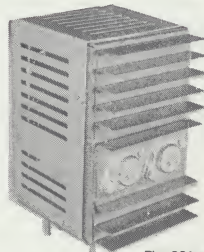
POWER/MATE CORPORATION

DUAL OUTPUT regulated POWER MODULES

DUAL OUTPUT POWER MODULES for logic circuits and equipment

DRA SERIES — 0.05% Regulation

DRB SERIES — 0.5% Regulation



RH Case

FEATURES

- All Silicon Semiconductors throughout
- All components rated for continuous duty at -20 to $+71^{\circ}\text{C}$
- Short Circuit Proof — may be shorted indefinitely without damage
- Automatic overload & short circuit recovery
- No external heat sink or cooling required up to $+71^{\circ}\text{C}$
- All components accessible and replaceable for maintenance
- Top quality components and construction
- Competitively priced
- Compact mechanical package
- All power supplies subjected to rigorous QC inspections during manufacture and testing
- All power supplies operated full load at 71°C for 24 hours prior to shipping

GENERAL DESCRIPTION

The DRA and DRB Series of Dual Output Power Supply Modules provides users of logic circuits and equipment a convenient dual output supply, all in one compact package. This group of supplies provide a choice of thousands of dual voltage and current combinations. These are listed on the following page.

These supplies have retained all of the features of our standard RA and RB Series, i.e., all silicon semiconductors, 71°C full load operation, no heat sinking required, and conservative design. The output current foldback circuit incorporated in these supplies actually reduces the power dissipated in the supply under short circuit and overload conditions, making the supply completely immune to overloads.

The Dual DRA and DRB Series of supplies are contained in the standard RH Case. This case has a removable perforated cover which provides complete access to all components. The input/output connections are made through an eleven pin "octal" type of plug. Connections at this plug permit the remote sensing of the voltage directly at the load for improved over-all regulation on the DRA Series.

Any combination of two supplies listed may be ordered as a dual supply, providing the case size factor noted for each supply adds up to less than 20 for the pair. See HOW TO ORDER for an example.

SPECIFICATIONS

INPUT: 105-125V, 47-420 CPS

OUTPUT: See Specific Model

REGULATION: $\pm 0.05\%$ vs line & load for DRA Series; $\pm 0.5\%$ vs line & load for DRB Series

RIPPLE: Less than 0.002%, or 1mV RMS whichever is greater for DRA Series; less than 0.01%, or 5mV RMS whichever is greater, for DRB Series

OPERATING AMBIENT TEMPERATURE: -20 to $+71^{\circ}\text{C}$

COOLING: None required at specified ambient temperatures

POLARITY: May be either positive, negative or floating (up to 300V) each supply independent

OVERLOAD PROTECTION: Solid state short circuit and overload protected, instantaneous recovery and automatic reset.

HOW TO ORDER

Note the Case Size Factor in the column for each of the two power supplies desired. Add these two numbers together. If the sum is 20 or less, then the supplies selected can be supplied as standard units in the DRA or DRB Series.

The model number for the dual supply consists of the prefix DRA (for 0.05% models) or DRB (for 0.5% models), followed by the voltage and current rating of each supply. Specify the higher voltage unit first. For example, a dual 16V, 0.375A, and a 10V, 0.750A supply in the DRA series is described by the following model number: DRA 16-0.375/10-0.750.

If the sum of the two Case Size Factors exceeds 20, consult the factory or our local representative in your area. We can probably supply it but in a different case size.

The cost of the dual module is the sum of the costs of the individual supplies selected. For example, the price of a dual module model DRA16-0.375/10-0.750 is the sum of \$78 and \$90, or \$168.

DRA SERIES (0.05% REGULATION) — DRB SERIES (0.5% REGULATION)

OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE FACTOR	DRA PRICE	DRB PRICE	MODEL NO. (See how to order above)	OUTPUT VOLTAGE ADJUST RANGE	OUTPUT CURRENT (AMPS)	CASE SIZE FACTOR	DRA PRICE	DRB PRICE	MODEL NO. (See how to order above)
3-5 see note 1	0.375	4	\$ 50	\$ 50	4-0.375	25-28	0.100	1.4	\$ 60	\$ 55	26-0.100
	0.750	7	60	60	4-0.750		0.200	2.8	70	60	26-0.200
5-7 see note 1	1.5	13	71	71	4-1.5		0.375	5.5	78	68	26-0.375
	0.200	2	50	50	6-0.200		0.750	10.5	102	92	26-0.750
	0.375	4	60	60	6-0.375	28-32	0.050	0.8	55	50	30-0.050
	0.750	7	65	65	6-0.750		0.100	1.6	60	55	30-0.100
7-9 see note 1	1.5	13	75	75	6-1.5		0.200	3.2	70	60	30-0.200
	0.200	2	50	50	8-0.200		0.375	6	81	71	30-0.375
	0.375	4	65	65	8-0.375	32-36	0.750	12	107	97	30-0.750
	0.750	8	80	80	8-0.750		0.050	0.9	55	50	34-0.050
9-11	1.5	15	89	89	8-1.5		0.100	1.7	65	55	34-0.100
	0.200	2	60	50	10-0.200		0.200	3.4	70	60	34-0.200
	0.375	4	75	65	10-0.375	36-40	0.375	6	85	75	34-0.375
	0.750	8	90	89	10-0.750		0.750	12.5	107	97	34-0.750
11-13	1.5	15	105	89	12-1.5		0.050	0.9	55	50	38-0.050
	0.100	1	55	50	12-0.100		0.100	1.7	65	55	38-0.100
	0.200	2	60	55	12-0.200	40-45	0.200	3.5	70	60	38-0.200
	0.375	4	75	65	12-0.375		0.375	6.5	85	75	38-0.375
13-15	0.750	8	90	80	12-0.750		0.750	13	107	97	38-0.750
	1.5	16	105	89	12-1.5	45-50	0.050	1	60	55	42-0.050
	0.100	1	55	50	14-0.100		0.100	2	70	60	42-0.100
	0.200	2	65	55	14-0.200		0.200	4	78	68	42-0.200
15-17	0.375	4	78	68	14-0.375		0.375	7.5	91	81	42-0.375
	0.750	8	98	88	14-0.750	50-56	0.750	15	115	100	42-0.750
	1.5	16	109	91	14-1.5		0.050	1	60	55	47-0.050
	0.100	1	55	50	16-0.100		0.100	2	70	60	47-0.100
17-19	0.200	2	65	55	16-0.200		0.200	4	78	68	47-0.200
	0.375	4	78	68	18-0.375	56-62	0.375	7.5	91	81	47-0.375
	0.750	8	98	88	18-0.750		0.750	15	120	110	47-0.750
	1.5	17	109	88	18-1.5		0.050	1	60	55	53-0.050
19-22	0.100	1.3	55	50	20-0.100		0.100	2	70	60	53-0.100
	0.200	2.6	65	50	20-0.200	62-69	0.200	4	80	70	53-0.200
	0.375	5	78	68	20-0.375		0.375	7.5	91	81	53-0.375
	0.750	10	98	88	20-0.750		0.750	15	120	115	53-0.750
22-25	0.100	1.4	55	50	23-0.100	69-76	0.050	1.4	80	70	72-0.050
	0.200	2.8	65	55	23-0.200		0.100	2.7	97	92	72-0.100
	0.375	5.5	78	68	23-0.375		0.200	5.5	115	110	72-0.200
	0.750	10	98	88	23-0.750		0.375	10	120	115	72-0.375

Note 1: These supplies have 0.5% regulation but may be supplied in combination with any of the supplies listed.

POWER/MATE CORP.

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POWER/MATE
CORPORATION

OPTIONS, ACCESSORIES,
WARRANTY, ORDERING INFO

OPTIONS

OVER-VOLTAGE PROTECTION. Additional charge 20% (\$35.00 min.).

Solid-state crow-bar protection for voltage sensitive loads is available for all RA and RB models. Trip point of crow-bar is adjustable. The addition of crow-bar circuitry generally requires next larger case size for N & R case supplies. Larger units can generally accommodate crow-bar circuitry. Consult factory for confirmation of case size when ordering. Add suffix V to model number when ordering.

CLOSE REGULATION. Additional charge \$10.00.

Regulation accuracies of $\pm 0.01\%$ for line and $\pm 0.025\%$ for load are possible for the RA series. When ordering add suffix A to model number.

208 or 230 VOLT INPUT. Additional charge 10% (\$15.00 min.).

All modules can be modified to accept inputs of 208 or 230 volts, $\pm 10\%$. Add the suffix L for 208 volts, and LL for 230 volt operation.

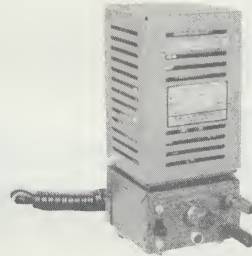
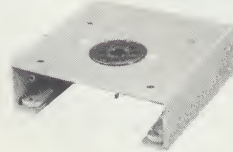
SOLDER TERMINALS. Additional charge \$4.00.

A solder header is available for any model normally supplied with an octal plug.

ACCESSORIES

PANEL & CHASSIS MOUNTING ADAPTER. This adapter permits any standard Power/Mate module to be surface mounted to either a chassis or panel. Includes socket. Order part no. A200- (—). Follow model no. with module case size with which adapter would be used. COST—ANY TYPE \$3.75.

MODULE LAB ADAPTER. Converts any RB or RA series module to a lab supply for only \$14.95. A real time saver. Permits module use during bench development. Adapter has on-off switch, voltage control pot, three-way terminals with std. G-R spacing. Module plugs in top of adapter. May be removed to place module in equipment. Order part no. A100- (—) for use with modules ten volts or more. Order part no. A101- (—) for modules less than ten volts. Follow part no. with module case size with which adapter is to be used. COST—ANY MODEL \$14.95.



THREE YEAR WARRANTY

POWER/MATE CORP warrants each product manufactured by them to be free from defects in material and workmanship. Our liability under the warranty is limited to servicing, adjusting, or replacing any product returned to the factory for that purpose and making good at the factory any part thereof which shall within three years after making delivery to the original purchaser be returned by the original purchaser to us with transportation charges prepaid and which our examination shall disclose to have been defective. In no case shall our liability exceed the original price

DISCOUNTS — Orders for one to four pieces are net prices shown. Five to nine pieces of same type earn a 5% discount. Ten to twenty-four pieces of same type earn a 10% discount. Contact factory for discounts on larger quantities.

TERMS — Our terms are $\frac{1}{2}\%$ ten days, net 30 days.

DELIVERY — Delivery of RC and RD series modules from stock (3 Days). Popular models of RA and RB also from stock. If not stock, delivery is two to three weeks.

POWER/MATE CORP.

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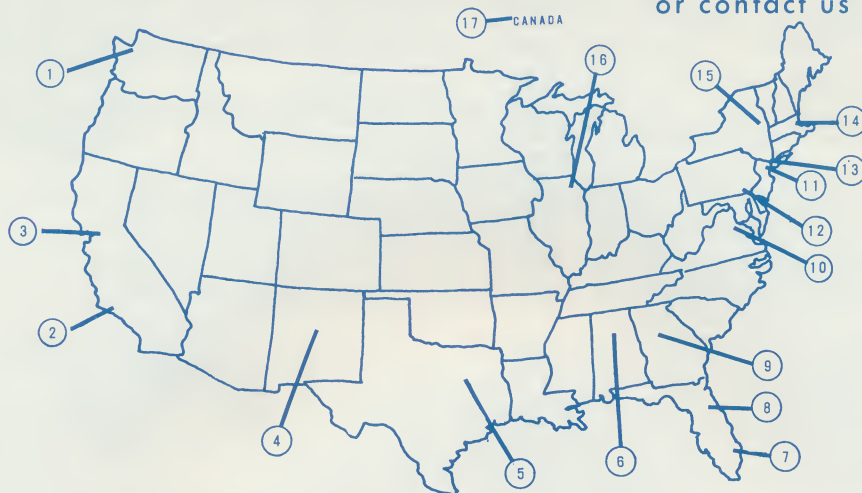
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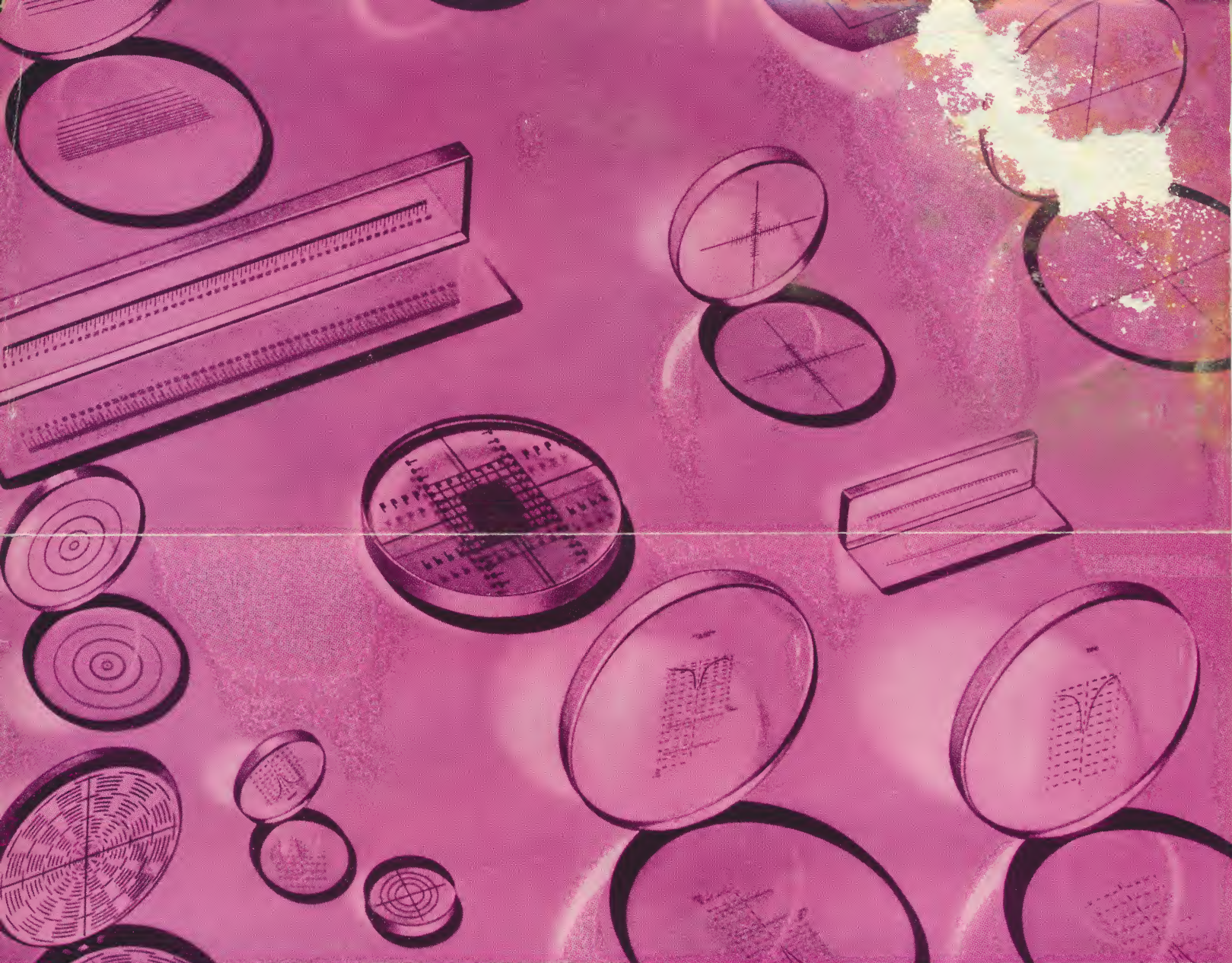
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GLASS ETCHING DATA

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Fire Control Reticles	Polished Ordinary Plate	Up to 3" ± .0001	.0005 to .001 ± .0001	Titanium Dioxide
Test Fixture Reticles	Water White Plate	Up to .6" ± .0005	.001 to .002 ± .0002	Ferric Oxide Red
Concave or Convex Reticles	Optical Crown	Up to 12" ± .002	.002 to .005 ± .0004	Ferric Oxide Black
Reticles for Guidance Systems Resolution Targets	Boro-Silicate Crown	Up to 24" ± .004	.005 to .010 ± .0005	Ferric Oxide Yellow
Calibrated Dials	Baryta Flint	Angles ± 0° 0' 30"	.010 to .050 ± .001	Conductive Metallic Silver
Light Chopper Disks	Pyrex			

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